

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051560

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04N5/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 689 305 A (NG SHEAU-BAO ET AL) 18 November 1997 (1997-11-18)	10,11
Y	column 2, line 55 – column 3, line 24	1,3,6
A	column 5, line 19 – line 60	
	column 6, line 49 – column 7, line 19	2,4,5
	column 8, line 34 – column 11, line 3	
	column 12, line 4 – column 13, line 10; figures 2-7	
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Y	EP 1 006 732 A (MITSUBISHI ELECTRIC CORP) 7 June 2000 (2000-06-07)	1,3,6
A	paragraph '0013! – paragraph '0015! paragraph '0034! – paragraph '0035!	4,5,8, 10,11
	paragraph '0039! – paragraph '0045! figures 5-7	
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

17 November 2004

02/12/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HAAN DE G ET AL: "DE-INTERLACING OF VIDEO DATA USING MOTION VECTORS AND EDGE INFORMATION" INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS. 2002 DIGEST OF TECHNICAL PAPERS. ICCE. LOS ANGELES, CA, JUNE 18 - 20, 2002, NEW YORK, NY : IEEE, US, 18 June 2002 (2002-06-18), pages 70-71, XP008026850 ISBN: 0-7803-7300-6 the whole document (specially figure 3) -----	1-11
A	HAAN DE G: "IC FOR MOTION-COMPENSATED DE-INTERLACING, NOISE REDUCTION, AND PICTURE-RATE CONVERSION" IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE INC. NEW YORK, US, vol. 45, no. 3, August 1999 (1999-08), pages 617-624, XP000926975 ISSN: 0098-3063 the whole document (specially formula 16) -----	1-11
A	BELLERS E B ET AL: "ADVANCED MOTION ESTIMATION AND MOTION COMPENSATED DEINTERLACING" SMPTE JOURNAL, SMPTE INC. SCARSDALE, N.Y, US, vol. 106, no. 11, 1 November 1997 (1997-11-01), pages 777-786, XP000725526 ISSN: 0036-1682 the whole document -----	1-11
A	EP 1 164 792 A (SAMSUNG ELECTRONICS CO LTD) 19 December 2001 (2001-12-19) paragraph '0001! paragraph '0018! - paragraph '0025! paragraph '0029! - paragraph '0038! paragraph '0045! paragraph '0053! - paragraph '0055!; figures 7,11,12 -----	1,3,6,7, 10,11
A	US 6 606 126 B1 (LIM ET AL) 12 August 2003 (2003-08-12) column 1, line 8 - line 27 column 3, line 32 - line 47 column 5, line 60 - column 6, line 22 column 6, line 50 - line 60 figure 3 -----	1,3,4,8, 10,11
		-/-

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DELOGNE P ET AL: "IMPROVED INTERPOLATION, MOTION ESTIMATION, AND COMPENSATION FOR INTERLACED PICTURES" IEEE TRANSACTIONS ON IMAGE PROCESSING, IEEE INC. NEW YORK, US, Vol. 3, no. 5, 1 September 1994 (1994-09-01), pages 482-491, XP000476825 ISSN: 1057-7149 the whole document -----	1-11

**INTERNATIONAL SEARCH REPORT****Information on patent family members**

International Application No  
PCT/IB2004/051560

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5689305	A	18-11-1997	NONE			
EP 1006732	A	07-06-2000	US EP JP JP	6192080 B1 1006732 A2 3393832 B2 2000175193 A		20-02-2001 07-06-2000 07-04-2003 23-06-2000
EP 1164792	A	19-12-2001	CN EP JP US	1328405 A 1164792 A2 2002027414 A 2002036705 A1		26-12-2001 19-12-2001 25-01-2002 28-03-2002
US 6606126	B1	12-08-2003	KR	2001026089 A		06-04-2001